Index of Claims



Application/Control No.

10/601,157

Examiner

An H. Do

Applicant(s)/Patent under Reexamination

DONALDSON ET AL.

Art Unit

2853

| <b>√</b> | Rejected | - | (Through numeral)<br>Cancelled | N | Non-Elected  | A | Appeal   |
|----------|----------|---|--------------------------------|---|--------------|---|----------|
| =        | Allowed  | ÷ | Restricted                     | ı | Interference | 0 | Objected |

| Cla      | aim      | Date   |  |  |  |          |          |                 |          |                               | Cla | Claim        |          | Date                                    |          |          |              |          |          |          |           |          | Cla | Date                                   |            |                |              |                                     |                                     |          |  |                 |                |                |
|----------|----------|--|--|--|--|----------|----------|-----------------|----------|-------------------------------|-----|--------------|----------|---|----------|----------|--------------|----------|----------|----------|-----------|----------|-----|--|------------|----------------|--------------|-------------------------------------|-------------------------------------|----------|--|-----------------|----------------|----------------|
| Final    | Original | 9/26/05  |  |  |  |          |          |                 |          |                               |     | Final        | Original |   |          |          |              |          |          |          |           |          |     | Final                                  | Original   |                |              |                                     |                                     |          |  |                 |                |                |
|          | 1        | 1  |  |  |  |          |          |                 |          |                               |     |              | 51       |   |          |          |              |          |          |          |           |          |     |  | 101        |                |              |                                     |                                     |          |  |                 |                |                |
|          | 2        | 1  |  |  |  |          |          |                 |          |                               | ] [ |              | 52       |   |          |          |              |          |          |          |           |          |     |  | 102        |                |              |                                     |                                     |          |  | $\Box$          |                |                |
|          | 3        | 1  |  |  |  |          |          |                 |          |                               |     |              | 53       |   |          |          |              |          |          |          |           |          |     |  | 103        |                |              |                                     |                                     |          |  | Ш               |                |                |
|          | 4        | 1  |  |  |  |          | L        |                 |          |                               |     |              | 54       | Ш                                       |          |          |              |          |          |          | _         |          |     |  | 104        |                |              |                                     |                                     |          |  | _               |                |                |
|          | 5        | =  |  |  |  | Ш        |          |                 |          |                               |     |              | 55       | $\sqcup$                                |          | _        |              |          |          |          | _         |          |     |  | 105        |                |              | Ш                                   |                                     | _        |  |                 | $\dashv$       | $\dashv$       |
|          | 6        | 1  |  | _  | _  |          |          | _               | _        | _                             |     |              | 56       | Щ                                       |          | _        |              |          |          |          | _         | _        |     |  | 106        | _              |              | Н                                   | -                                   | _        |  |                 | $\dashv$       | $\dashv$       |
|          | 7        | 1  |  | <u> </u>   | <u> </u>   |          | _        |                 |          |                               |     |              | 57       | $\vdash \vdash$                         | _        |          | -            |          |          | $\dashv$ |           |          |     |  | 107<br>108 |                | _            | $\vdash$                            |                                     |          |  | $\dashv$        | $\dashv$       | $\dashv$       |
|          | 8        | N  |  |  | -  | <b>.</b> | -        |                 | ⊢        | -                             |     |              | 58<br>59 | $\vdash \vdash$                         | $\dashv$ |          | -            |          | $\dashv$ | $\dashv$ | $\dashv$  |          |     |  | 109        |                | H            |                                     | $\vdash$                            |          | -  | $\dashv$        |                | $\dashv$       |
|          | 9<br>10  | =  |  |  | -  | H        | -        |                 | ┢        | -                             | 1   |              | 60       | Н                                       | -        |          |              |          | $\dashv$ | $\dashv$ | -         |          |     |  | 110        |                |              | $\vdash$                            |                                     |          |  | $\dashv$        |                | $\dashv$       |
|          | 11       | =  | -  | $\vdash$   | ⊢  | $\vdash$ |          | $\vdash$        | -        | $\vdash$                      | 1   |              | 61       | $\vdash$                                | -        |          |              |          | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |     |  | 111        |                | $\vdash$     | Н                                   | Н                                   |          | $\vdash$                                     | $\dashv$        | $\dashv$       | $\dashv$       |
|          | 12       | =  |  | $\vdash$   |  | $\vdash$ | -        | ╁╌              | H        | ┢                             | 1   |              | 62       | Н                                       | $\dashv$ |          | -            |          | -+       |          | _         | $\dashv$ |     |  | 112        |                | H            | Н                                   |                                     |          |  | $\dashv$        | $\dashv$       | $\dashv$       |
|          | 13       | =  | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$ |          |                 |          | <del> </del>                  | 1 1 |              | 63       | $\vdash$                                | $\dashv$ |          |              | $\dashv$ | $\dashv$ | $\dashv$ |           | $\dashv$ |     |  | 113        |                |              | $\sqcap$                            |                                     |          |  | $\dashv$        | $\dashv$       | $\dashv$       |
|          | 14       | =  |  |  | t  |          |          | $\vdash$        | $\vdash$ | $\vdash$                      | 1   |              | 64       | H                                       | $\dashv$ | $\vdash$ |              | $\Box$   |          | $\dashv$ | $\dashv$  |          |     |  | 114        |                | $\vdash$     | М                                   |                                     |          | П  | $\dashv$        | $\neg$         | $\dashv$       |
|          | 15       | =  | $\vdash$   |  |  |          | <u> </u> | $\vdash$        |          |                               |     |              | 65       | H                                       | $\neg$   | $\neg$   | $\vdash$     |          | $\dashv$ | $\dashv$ | $\neg$    |          |     |  | 115        |                |              | П                                   |                                     |          |  | Ħ               |                | $\dashv$       |
|          | 16       | =  | Г  |  |  |          | 1        |                 |          | Г                             | 1   |              | 66       | П                                       |          |          |              |          | $\neg$   |          | $\exists$ |          |     |  | 116        |                |              |                                     |                                     |          |  |                 |                |                |
|          | 17       | 1  |  | <del>                                     </del> |  |          |          |                 |          | Γ-                            | 1   |              | 67       |   |          |          |              |          |          |          |           |          |     |  | 117        |                |              |                                     |                                     |          |  |                 |                |                |
|          | 18       | 1  |  |  |  |          |          |                 |          |                               | 1   |              | 68       |   |          |          |              |          |          |          |           |          |     |  | 118        |                |              |                                     |                                     |          |  |                 |                |                |
|          | 19       |  |  |  |  |          |          |                 |          |                               |     |              | 69       |   |          |          |              |          |          |          |           |          |     |  | 119        |                |              |                                     |                                     |          |  | Ш               | $\Box$         | Ш              |
|          | 20       |  |  |  |  |          |          |                 |          |                               | ]   |              | 70       |   |          |          |              |          |          |          |           |          |     |  | 120        |                |              |                                     |                                     |          |  | Ш               | $\Box$         |                |
|          | 21       |  |  |  |  |          | L        |                 |          |                               |     |              | 71       |   |          |          |              |          |          |          |           |          |     |  | 121        |                |              | Ш                                   | oxdot                               |          |  | Ш               |                | $\square$      |
|          | 22       |  |  |  | L  | ļ        |          | <u> </u>        |          |                               |     |              | 72       | Ш                                       |          |          |              |          | $\dashv$ | _        |           |          |     |  | 122        |                | L            |                                     |                                     |          |  | Ш               |                | _              |
|          | 23       |  |  | L  | <u> </u>   | <u> </u> |          | <u> </u>        | _        | L                             |     |              | 73       | $  \bot  $                              |          |          |              |          |          | _        |           |          |     |  | 123        | <u> </u>       | <u> </u>     |                                     |                                     |          |  | ⊢⊢              | $\dashv$       | $\dashv$       |
|          | 24       |  |  | <u></u>  | L_   | <u> </u> | _        | <u>_</u>        |          | <u> </u>                      |     |              | 74       | $\sqcup$                                | _        |          |              |          |          | _        |           |          |     | <b></b>                                | 124        | <u> </u>       |              |                                     |                                     |          |  | $\vdash \vdash$ | $\dashv$       |                |
|          | 25       | _  |  |  | <u> </u>   | <u> </u> | <u> </u> | ┡               | ⊢        | _                             |     |              | 75       | Н                                       | _        | Щ        |              |          | -        |          |           |          |     | <u> </u>                               | 125        | <u> </u>       |              | H                                   | $\vdash$                            |          |  | $\vdash$        | $\dashv$       | $\dashv$       |
|          | 26       |  | _  |  | <u> </u>   |          | -        | ├               | ⊢        | L                             |     |              | 76<br>77 | Н                                       | _        |          | _            |          |          | $\dashv$ | -         | $\vdash$ |     | <u> </u>                               | 126<br>127 | <u> </u>       |              | Н                                   | H                                   | _        | -  | $\vdash$        | $\dashv$       | $\dashv$       |
|          | 27       | <u> </u>   | <u> </u>   |  | -  | ┢        | ⊢        | <del> </del>    | Ͱ        | H                             | - 1 |              | 78       | Н                                       | _        | _        | _            | -        |          | $\dashv$ |           | Н        |     | -                                      | 128        | <u> </u>       | -            | Н                                   | $\vdash$                            | $\vdash$ |  | $\vdash$        | $\dashv$       | $\dashv$       |
|          | 28       |  | _  |  | 1—   | -        | ├        | <del> </del>    | ┢        |                               | 1   |              | 79       | $\vdash$                                | -        |          | $\vdash$     |          | -        | $\dashv$ | $\dashv$  | Н        |     | <del> </del>                           | 129        | <del> </del>   |              | H                                   | -                                   |          |  | $\vdash$        | $\dashv$       |                |
|          | 29<br>30 | ⊢  |  | -  | <del> </del>                                     | -        | <u> </u> | ┢╾              | ├        | ╁                             |     | -            | 80       | $\vdash$                                |          | _        | -            | -        |          | $\dashv$ |           | Н        |     |  | 130        | <del> </del> - | -            | Н                                   |                                     |          | -  | $\vdash$        | $\dashv$       | $\overline{}$  |
|          | 31       |  | $\vdash$   | $\vdash$   | <del>                                     </del> |          | ╁        | ┢               | ╁        | ┢                             | 1   |              | 81       | $\vdash$                                |          | -        |              | Н        | $\dashv$ |          |           | $\vdash$ |     |  | 131        | $\vdash$       | ┢            | -                                   | -                                   |          |  |                 | $\dashv$       | $\neg$         |
|          | 32       |  | ┢  | ├  | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$        | ╁        | ┢                             | 1   |              | 82       |   |          |          | -            | _        | $\dashv$ |          |           | $\vdash$ |     | <b>-</b>                               | 132        |                | -            |                                     |                                     |          | -  |                 | $\exists$      | _              |
|          | 33       |  | $\vdash$   | -  | ╁╌   | <u> </u> |          | $\vdash$        | ┢        | $\vdash$                      | 1   | <u> </u>     | 83       | Н                                       |          |          |              |          |          |          |           |          |     |  | 133        | $\vdash$       |              |                                     |                                     |          |  | $\sqcap$        |                |                |
|          | 34       |  | $\vdash$   | -  | $\vdash$   | t        |          | <del> </del>    | †-       | t                             | 1   |              | 84       | П                                       |          |          | $\vdash$     | М        | $\Box$   |          |           |          |     |  | 134        | Г              |              | П                                   | Г                                   | П        |  | П               | $\neg$         |                |
|          | 35       | <del>                                     </del> |  | Г  |  | T        | T        | T               |          | T                             | 1   |              | 85       | П                                       |          |          | Г            |          |          |          |           | П        |     |  | 135        |                | L_           |                                     |                                     |          |  |                 |                |                |
|          | 36       | Г  | Г  | Г  | Τ  |          |          |                 |          |                               | ]   |              | 86       |   |          |          |              |          |          |          |           |          |     |  | 136        |                |              |                                     |                                     |          |  |                 |                |                |
|          | 37       |  |  |  |  |          |          |                 | $\Box$   |                               | ]   |              | 87       |   |          |          |              |          |          |          |           |          |     |  | 137        |                |              |                                     |                                     |          |  | $\square$       | $\square$      |                |
|          | 38       | L  |  |  | L  |          |          |                 |          |                               | ]   |              | 88       |   |          |          |              |          |          |          |           |          |     |  | 138        |                |              |                                     |                                     |          |  | Ш               |                |                |
|          | 39       |  |  |  |  |          |          |                 |          |                               | ]   |              | 89       |   |          |          |              |          |          |          |           |          |     |  | 139        | <u> </u>       | _            |                                     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L        | Ш  | Ш               | لـــا          | Щ              |
|          | 40       | $\Box$   | 匚  | Ĺ  |  |          |          |                 |          | Ĺ                             |     |              | 90       |   |          | L        | $oxed{oxed}$ | Ш        | Ш        | Щ        |           | Ш        |     |  | 140        | <u> </u>       | _            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u>_</u>                            | <u> </u> | $\sqcup$                                     | Ш               | Ш              | <u> </u>       |
|          | 41       |  |  |  |  | _        | <u> </u> | _               | <u> </u> | <u>L</u>                      | 1   |              | 91       |   |          | L        |              | Щ        | Ш        |          |           | Ш        |     |  | 141        | <u> </u>       | <u> </u>     | oxdot                               | <u> </u>                            | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$          | Ш               | Ш              | Щ              |
|          | 42       | $oxed{oxed}$                                     | _  |  | _  | $\perp$  | <u> </u> | $oxed{igspace}$ | <u> </u> | <u> </u>                      | ↓   | <u> </u>     | 92       | Ш                                       |          | L-       | <u> </u>     | $\vdash$ | Ш        |          |           | Ш        | 1   | <u> </u>                               | 142        | <u> </u>       | ļ            | ⊢                                   | <u> </u>                            | <u> </u> | <u> </u>                                     | dash            | Ш              | Н              |
|          | 43       | $\vdash$   | <u> </u>   | <u> </u>   | _  | <u> </u> | ┞        | ऻ_              | <u> </u> | $oldsymbol{oldsymbol{\perp}}$ |     | <u> </u>     | 93       | Ш                                       |          | <u> </u> |              | $\vdash$ | Щ        | _        |           | Ш        |     | <u> </u>                               | 143        | -              | _            | $\vdash$                            | <u> </u>                            | <u> </u> |  | Н               | Щ              | $\vdash$       |
|          | 44       | ┡  |  | -  | -  | ├-       | ₩        | $\vdash$        | ļ        | <del>  -</del>                |     |              | 94       | $\vdash$                                |          | H        | H            | ļ        | Н        |          |           | $\vdash$ |     |  | 144        | -              | $\vdash$     | $\vdash$                            | ⊢                                   | ├        | $\vdash$                                     | $\vdash\vdash$  | Н              | $\vdash\vdash$ |
|          | 45       | ⊢  | <b>—</b>   | $\vdash$   | -  | ├-       | -        | ⊢               | 1        | -                             | ┨   | <u> </u>     | 95       | $\vdash$                                |          |          | <del> </del> |          | H        |          |           | H        |     |  | 145<br>146 | <del> </del>   | ⊢            | ⊢                                   | -                                   | $\vdash$ | $\vdash$                                     | $\vdash$        | $\vdash\vdash$ | $\vdash$       |
|          | 46       | -  | ⊢-   | <del> </del>                                     | $\vdash$   | ┼        | -        | ├               | ⊢        | ⊢                             | -   | <u> </u>     | 96<br>97 | $\vdash$                                | -        | -        | $\vdash$     | $\vdash$ | Н        |          |           | -        |     |  | 147        | <del> </del>   | ├            | <del> -</del>                       | ⊢                                   | $\vdash$ | H  | ⊦-∤             | Н              | Н              |
|          | 47       | $\vdash$   | ├-   | ⊢  | $\vdash$   | $\vdash$ | -        | ⊢               | ╀        | ╀                             | -   |              | 98       | $\vdash$                                |          |          | $\vdash$     |          | $\vdash$ |          |           | $\vdash$ | 1   |  | 148        | -              | ├            | -                                   | ⊢                                   | $\vdash$ | $\vdash$                                     | $\vdash \vdash$ | Н              | $\vdash$       |
| -        | 48<br>49 | $\vdash$   | $\vdash$   | ├-   | Ͱ  | +-       | $\vdash$ | $\vdash$        | ╁        | ╁                             | 1   |              | 99       | $\vdash$                                | -        | ├-       | $\vdash$     | $\vdash$ | Н        | -        |           | -        | 1   | -                                      | 149        | $\vdash$       | <del> </del> | ┢╾                                  | ⊢                                   | ┢        | $\vdash$                                     | $\vdash$        | Н              | Н              |
| <u> </u> | 50       | ╁  | <del>                                     </del> | $\vdash$   | ╁  | $\vdash$ | $\vdash$ | -               | ╂        | $\vdash$                      | 1   | <del> </del> | 100      | $\vdash$                                | H        | H        | H            | -        | Н        | -        | _         | $\vdash$ | ł   | $\vdash$                               | 150        | ├-             | 1            | +-                                  | -                                   | $\vdash$ | $\vdash$                                     | Н               | Н              | Н              |
| L        | 1 30     | ┖  | <u> </u>   |  | 1  | 1        | <u></u>  | 1               | 1        | 1                             | J   |              | 1100     | لــــــــــــــــــــــــــــــــــــــ | Щ        | Щ.       | L_           |          | ட        |          |           | L        | J   | ــــــــــــــــــــــــــــــــــــــ | L 130      |                |              | Щ.                                  | Ь_                                  | <u> </u> | <u>.                                    </u> | لـــا           | Щ.             | لـــا          |